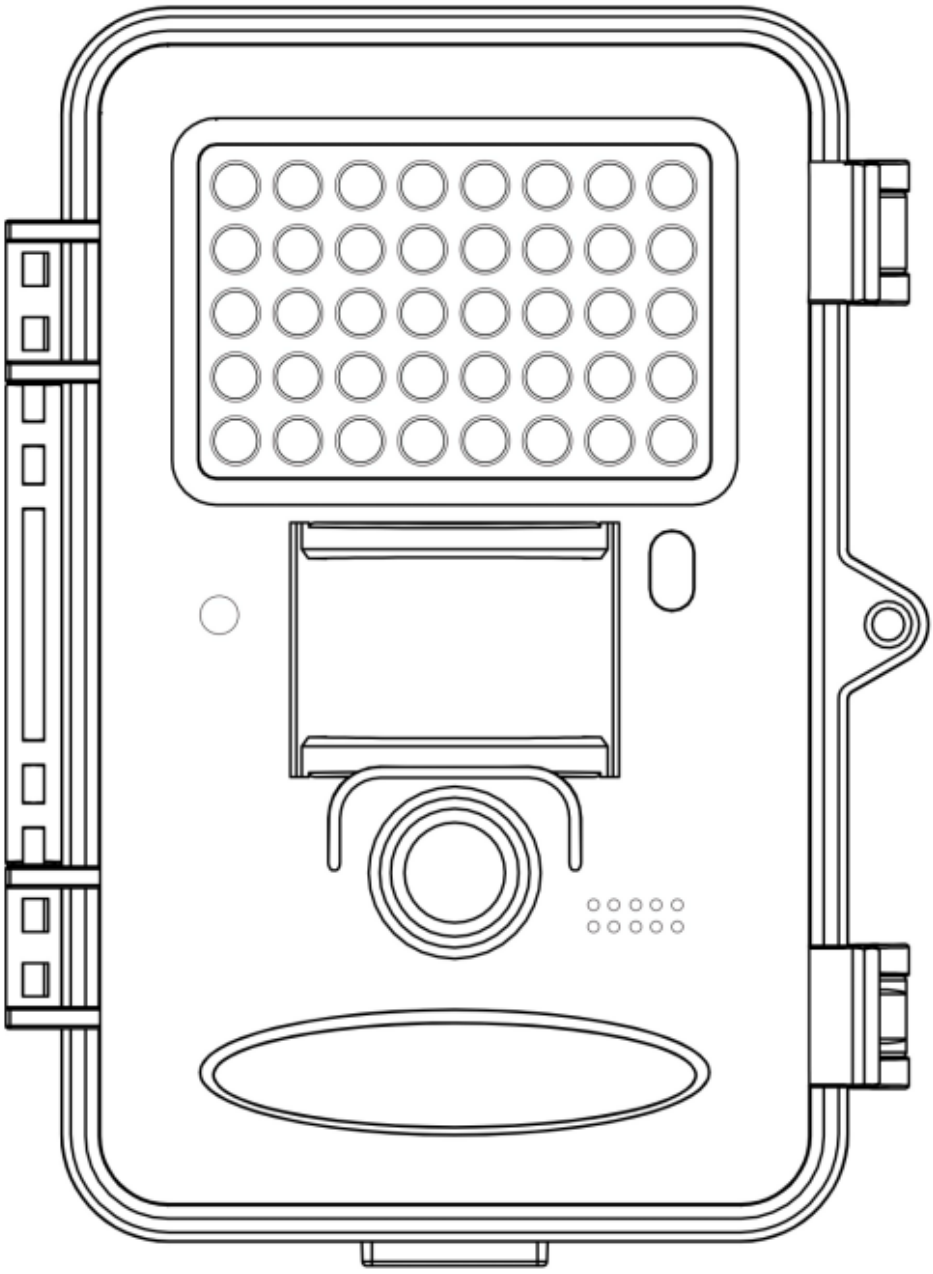
User's Manual

SG562-BW/SG562-12mHD

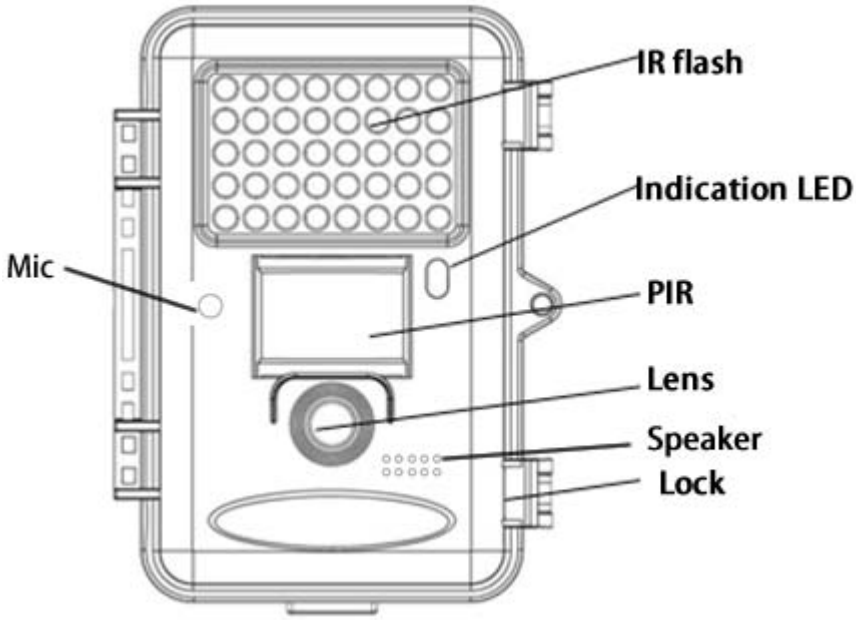


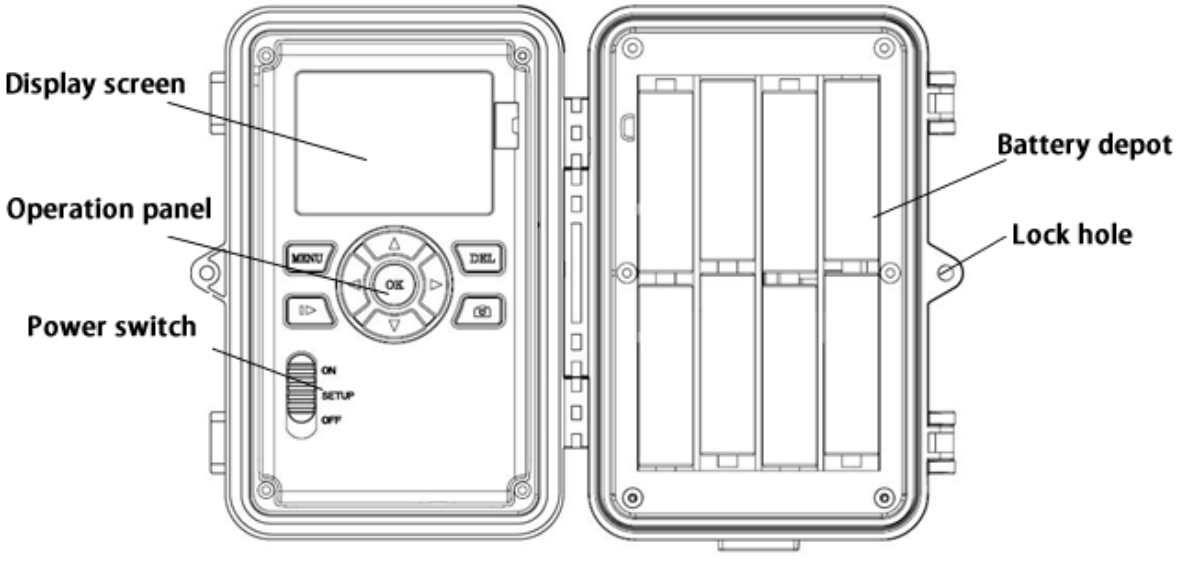
Content

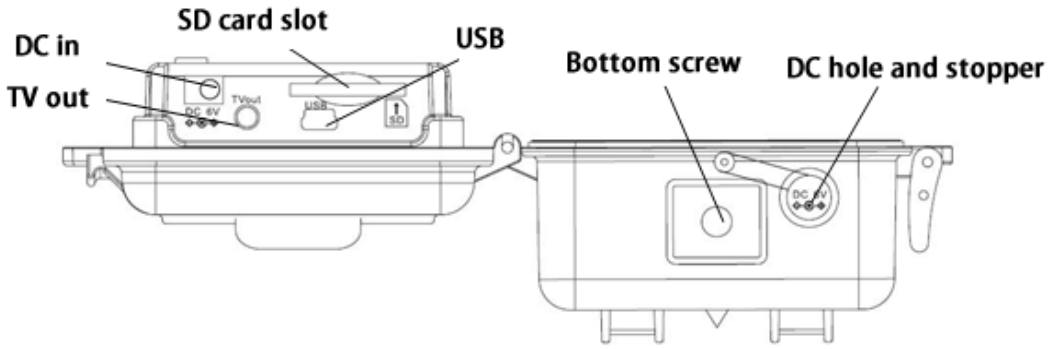
1 Instruction. 1
1.1 Camera Body Interfaces. 1
1.2 General Description. 2
1.3 Application. 2
1.4 Shooting Information Display. 3
1.5 Cautions. 4
2 Quick Start Guide. 5
2.1 Power Supply. 5
2.2 Insert the SD Card. 6
2.3 Enter into Setup Mode. 6
2.3.1 Preview and Playback. 6
2.3.2 Customer Settings. 6
2.3.3 Manual Capturing. 6
2.3.4 View Images or Videos. 7
2.3.5 Delete Images or Videos. 7
2.4 Triggering Modes. 7
2.4.1 PIR Triggering. 7
2.4.2 Timer Triggering. 7
2.4.3 PIR&Timer Triggering. 8
2.5 Enter into On Mode. 8
3 Item Settings. 9
3.1 Camera Menu. 9
3.2 Default Setting. 12
3.3 Power Off. 13
4 Mounting the Camera. 14
5 PIR Detection Zone. 15
6 Technical Specifications. 16
7 Parts List. 17

1 Instruction

1.1 Camera Body Interfaces







1.2 General Description

This camera, a bird watching camera with black IR LEDs, is a digital infrared surveillance camera, triggered by any movement of humans or animals monitored by a high sensitive Passive Infrared (PIR) motion sensor, and then automatically captures high quality pictures or records video clips according to default settings or preset customer settings.
There is a 1.44" color LCD display screen on the camera. The device is designed for outdoor use and resistant against water and snow. Furthermore, the camera can be used as a portable digital camera. Pictures or videos can be taken manually by pressing on the operation panel.

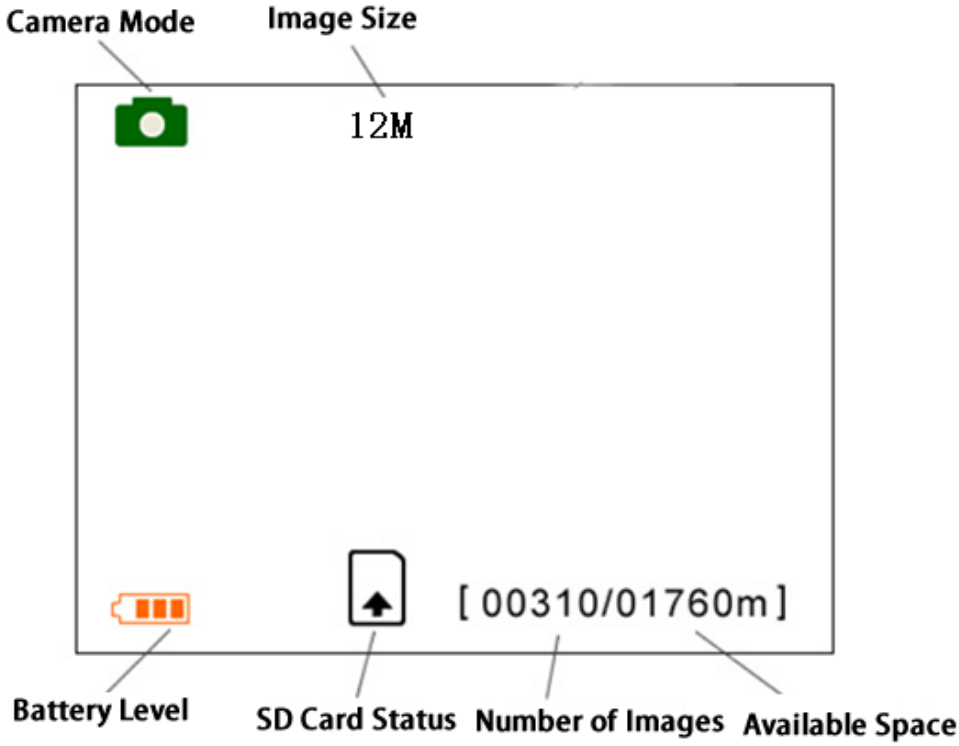
1.3 Application

This camera can be used as an automatic surveillance device for watching and guarding birds. It can also be used as trail camera for hunting or monitoring animals by recording the traces of

wild animals. It can be left alone for weeks and months and it will save event records automatically in digital format.

1.4 Shooting Information Display

When the camera is turned on (power switch is slid to SETUP position), the current settings will be displayed on the screen.



Key notes:

"MENU" : to enter the program menu in preview mode;

"▲""▼""◄""►": for parameter settings ;

"OK": to save parameter settings and play videos;

"": to exchange between playback mode and

preview mode;

"DEL": to delete an image or video;

" ": to capture a photo or record a video manually.

1.5 Cautions

★The working voltage of the camera is 6V.The camera is supplied by 8 AA batteries or DC power adapter with output of 6V. Please install batteries according to shown polarity.

★Please insert the SD card when the power switch is in OFF position before testing the camera. The camera has no internal memory for saving images or videos. If no SD card is inserted, the camera will shut down automatically after a continuous indication beep.

★Please do not insert or take out the SD card when the power switch is in the ON position.

★It is recommended to format the SD card by the camera when used for the first time.

★The camera will be in USB mode when connected to a USB port of a computer. In this case, the SD card function is as a removable disk.

★In SETUP mode, the camera will shut down automatically after 3 minutes if no operation is done. Please turn on the power again if you want to continue to work with the camera.

2 Quick Start Guide

2.1 Power Supply

To supply power for the camera, four or eight size AA batteries are needed.

1. High-density and high-performance alkaline batteries (Recommended)
2. Rechargeable alkaline batteries
3. Rechargeable NiMH batteries

When in a low-battery state, the camera will be automatically shut down. Please change the batteries at this time.

Caution: Risk of explosion if battery is replaced by an incorrect type. Also dispose of used batteries according to the instructions.

Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

2.2 Insert the SD Card

Insert SD card into the card slot. Please note that the SD card is on the “write” (not locked) position otherwise the camera will not function correctly.

2.3 Enter into Setup Mode

There are 3 states in SETUP Mode: preview state (preview the scene in the front of the camera), setting state (do customer settings), and playback state (view photos or videos via a 2.0” LCD display).

2.3.1 Preview and Playback

After switching the camera to SETUP Mode, it enters into the preview state.
Press to exchange between playback mode and preview mode;

2.3.2 Customer Settings

Press MENU to manually customize the camera settings which displayed on the screen. The detailed operations will be described in “Advanced Operations” chapter.

2.3.3 Manual Capturing

Press to manually capture photos or record videos, again to stop the manual capturing of a video.

2.3.4 View Images or Videos

Press ▶ to view images or videos, the latest image or video will be shown on the LCD screen. Press "▲" or "▼" to view the previous or next image or video and press OK to see a video.

2.3.5 Delete Images or Videos

Press **DEL** to delete images or videos .Note the **DEL** button just works in Playback state. So if it's in Preview state, you should press ▶ to enter into Playback state first.

2.4 Triggering Modes

There are 3 triggering modes of the camera: PIR triggering , Timer triggering and PIR&Timer triggering.

2.4.1 PIR Triggering

PIR triggering is the default setting. The camera works only when motions get detected, while, if PIR sensitivity is set as PIR OFF, the camera stops PIR triggering.

2.4.2 Timer Triggering

The **Timer Interval** default setting is OFF which means the timer triggering is disabled. While changing the timer triggering interval to a non-zero value, the camera starts to work at a preset interval.

User need to OFF the PIR triggering (choose PIR sensitivity as PIR OFF) if want the camera to work only via Timer triggering.

2.4.3 PIR&Timer Triggering

For both PIR triggering and Timer triggering, the user need go to PIR sensitivity to set “normal, high or low” sensitivities according to the external environments, and set the Timer interval to a desired non-zero value. The camera will capture pictures or videos in a preset time interval even there is no motions detected, the camera will also capture pictures and videos if motions get detected.

2.5 Enter into On Mode

After switching the camera to ON position, the motion indication LED (red) will blink for about 10s. This time interval is for you to make the camera ready for automatic surveillance operation, e.g., to close the camera and to lock it, to fix the camera on a tree and to walk away. After entering into the ON mode, no manual controls are needed and possible. The camera will take pictures or videos automatically according to the previous programmed settings when human or animals enter into the monitoring region.

3 Item Settings

3.1 Camera Menu

To view the camera settings menu, press **MENU** in **SETUP** mode. Use "▲" or "▼" key to select the sub-menu, use "◄" or "►" key to select the different options. Press "OK" to save the settings.
After changing EACH setting in SETUP menu you must press "OK", otherwise the camera will stay at the default setting.

Setting Items	Description
Camera Mode	Choose capturing images, recording videos or image with a video clip.
Set Clock	Set camera date and time. You can change the date and time of the device by setting this parameter when necessary, e.g., after every battery change. The date format is **month/day/year**, the time format is **hour: minute: second.** The valid value for year is between 2015 and 2050.
Photo Size	Choose the image size, e.g. 12MP,8MP or 5MP.
Photo Burst	Choose the continuous shooting numbers after each triggering.
Object Distance	This camera supports two focus capturing: far and near. " Far " means camera focuses at 0.4m to 0.8m. "Near"

	means 0.8m to 1.5m.
Video Size	Choose the video size: 1280x720 or 640x480.
Video Length	Choose duration of recording video. This parameter is effective and can be adjusted only when the device in the video mode under ON mode. Its value extends from 5 to 60 seconds with a step of one second. The default value is 10 seconds. Press **LEFT** and **RIGHT** to decrease or increase the value by 1 second.
Time Lapse	Time lapse means the camera can capture images or videos at a preset time interval regardless of whether motions are detected. The default parameter is Off, which means the timer function is disabled. Changing this parameter to a non-zero value turns on the Time Lapse mode, and camera will take photos at given time interval. **Please note that if the PIR Trigger is set to Off, then the Time Lapse can't be set to Off.**
	Choose sensitivity of the PIR sensor. This parameter defines the sensitivity of the PIR. There are four sensitivity parameters: High, Normal, Low and Off. The default value is "Normal". The higher degree indicates that the Camera is more easily to be triggered by motion,

PIR Trigger	taking more pictures or recording more videos. It is recommended to use high sensitivity degree in room or environment with little interference, and to use lower sensitivity for outdoor or environment with lots of interference like hot wind, smoke, near window etc. Furthermore, the sensitivity of the PIR is strongly related to the temperature. Higher temperature leads to lower sensitivity. Therefore it is suggested to set a higher sensitivity for high temperature environment.
PIR Interval	This parameter indicates how long the PIR (Passive Infrared motion sensor) will be disabled after each triggering in ON mode. During this time the PIR of the device will not react to the motion of human (or animals). The minimum interval is 0 second, it means the PIR works all the time. The maximum interval is 1 hour. It means the PIR will be disabled for 1 hour after each triggering. Press LEFT or RIGHT to decrease or increase the value.
Camera Posit	It means camera position. You can set A-Z position for your camera, so that you can distinguish which photo is taken by which camera.
	This parameter means new picture or video will cover the initial ones when SD

Recycle Storage	card is full so that you need not take the camera back and delete the images and videos.
Game Call	It means this camera can play audio file at a preset time clock for preset times. The audio file must be saved in the directory of \DCIM\100BMCIM\ with a name of AUDIxxxx(from 0000 to 9999).WAV after format the SD card and setting the game call as on mode.
Format SD	All images and videos in the SD card will be deleted, so make sure that you have made a backup of important data.
Version	This parameter shows the information about software version and camera model.
Default Set	Restore all customer settings to default values.

3.2 Default Setting

Setting Items	**Default**	**Options**	**Submenu**
Camera Mode	Photo	Video Pic+Video	
Set Clock	Enter		Adjust Clock
Photo Size	12MP	5MP 8MP	
Photo Burst	1 Photo	2 Photos 3 Photos	

Object Distance	Far	Near	
Video Size	1280x720	640x480	
Video Length	10 sec	5–60 sec	
Time Lapse	Off	5–55Min 1–8Hour	
PIR Trigger	Normal	High, Low ,Off	
PIR Interval	5 Sec	0–55 Sec, 1–60 Min	
Camera Posit	Off	A-Z Position	
Recycle Storage	On	Off	
Game Call	On	Off	
Format SD	Enter		Yes, No
Version	Enter		Version Machine
Default Set	Save		

3.3 Power Off

Switch the camera to OFF position to power off the camera. Please note that even in OFF mode, the camera still consumes certain power at μA level. Therefore, please remove the battery if the camera will not be used for a long time.

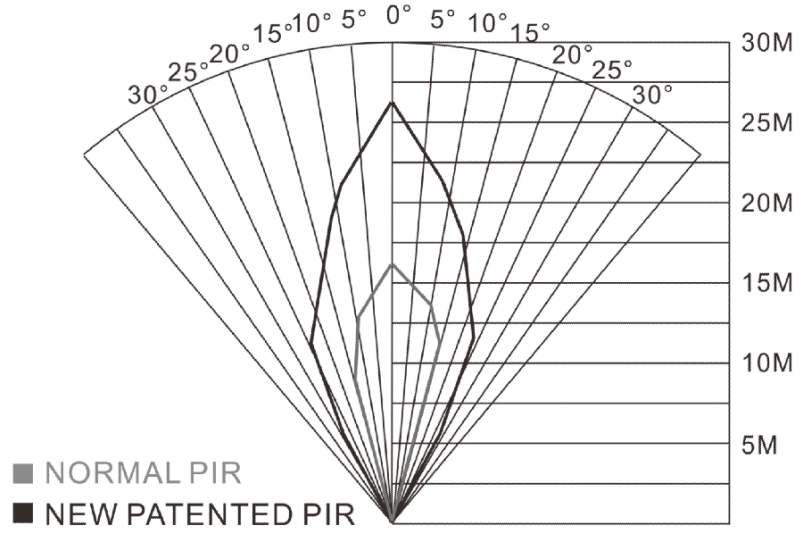
4 Mounting the Camera

(Only for SG562-BW) When using the camera in outdoor environment, such as monitoring the living habits of birds, you need to mount the device on a certain place properly.

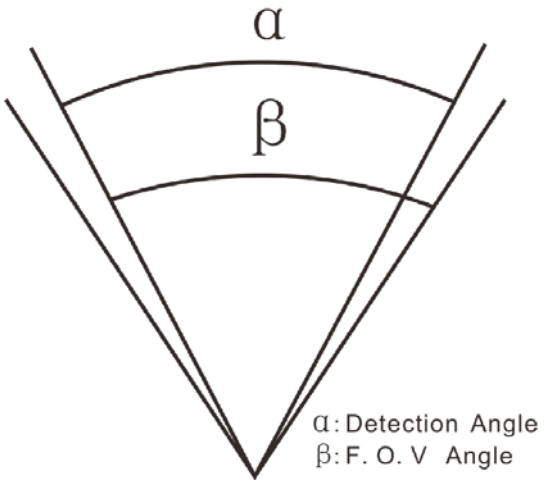
It is recommended to mount the camera with the bracket, the camera supports two focus: near(0.4m to 0.8m) and far (0.8m to 1.5m). Adjust the viewing angel properly (view angle of this camera is 52°) when mounting the camera.

5 PIR Detection Zone

This camera has a new design of PIR and the new PIR is patented. The new patented PIR's detection range can reach up to 85ft in good environments. Following picture shows the compared detection zone between normal PIR and the new patented PIR.



The PIR detection angle (α) is just smaller than the field of view (FOV) angle (β). The advantage of this design is to reduce empty picture rate and capture most, if not all, motions.



6 Technical Specifications

Image Sensor	5MP Color CMOS, 8MP and 12MP Interpolation
Lens	F/NO=3.1 FOV(Field of View)=52°
PIR detection range	85ft
Display Screen	1.44" LCD
Memory Card	From 8 MB to 32 GB
Picture Resolution	12MP=4032×3024 8MP = 3264 ×2448 5MP = 2560×1920
Video Resolution	1280x720(20fps) 640×480(20fps)
PIR Sensitivity	Adjustable (High/Normal/Low)
Trigger Time	1.2s
Weight	0.25 kg(without battery)
Operation/Storage Tem.	-20 - +60°C / -30 - +70°C
Photo Burst	1–3
Video Length	5–60s
Power Supply	8×AA or 4×AA External power DC 6V,2A
Low Battery Alert	LED Indicator
Sound Recording	Not available
Mounting	Rope/Belt/Python lock
Dimensions	140 x80 x50 mm
Operation Humidity	5% - 90%
Security Authentication	FCC, CE, RoHS

7 Parts List

Part Name	Quantity
Camera	One
USB Cable	One
Belt	One
User Manual	One
Mounting bracket	One
Warranty Card	One

Version 1.0